

(19) World Intellectual Property  
Organization  
International Bureau



EV742516633US



(43) International Publication Date  
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number  
WO 2005/075551 A1

(51) International Patent Classification<sup>7</sup>: C08K 9/06

(21) International Application Number:  
PCT/EP2005/000843

(22) International Filing Date: 28 January 2005 (28.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
04290243.7 30 January 2004 (30.01.2004) EP

(74) Agents: DELENNE, Marc et al.; RHODIA SERVICES,  
Direction de la Propriété Industrielle, 40 rue de la Haie Coq,  
F-93306 AUBERVILLIERS CEDEX (FR).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (for all designated States except US): RHO-  
DIA CHIMIE [FR/FR]; 26 quai Alphonse Le Gallo,  
F-92512 BOULOGNE BILLANCOURT CEDEX (FR).  
SHIN-ETSU CHEMICAL CO., Ltd [JP/JP]; 6-1,  
Ohtemachi 2-chome, Chiyoda-ku, Tokyo (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): POTTIER, Ag-  
nès [FR/FR]; 11, Square de Port-Royal, F-75013 Paris  
(FR). HWANG, Kyu-Min [KR/KR]; 481 Hyundai APT  
117-2302, Gaebong 2 dong, Kuro-Gu, Seoul (KR).  
IGARASHI, Minoru [JP/JP]; 787-2, Yanase, An-  
naka-ci, Gunma-Ken (JP). NAKAMURA, Tsutomu  
[JP/JP]; 1318-5, Haraichi, Annaka-ci, Gunma-ken (JP).  
HARADA, Naohiko [JP/JP]; 10-5, 2-chome, Hisagi,  
Zushi-ci, Kanagawa-ken (JP).

Published:

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: USE OF A PRETREATED PRECIPITATED SILICA AS A REINFORCING FILLER FOR SILICONE ELASTOMER  
AND THE CURABLE SILICONE ELASTOMER COMPOSITIONS THUS OBTAINED BY COLD MIXING

(57) Abstract: The invention relates to the use of a precipitated silica, pretreated by at least one organosilane hydrophobing com-  
pound or one hydrophobing silicone oil, as a reinforcing filler for silicone elastomer, the said pretreated silica being incorporated in  
the silicone elastomer by cold mixing and having the following features : - a BET specific surface ranging from 50 to 450 m<sup>2</sup>/g, -  
a water wettability lower than 80, - a sulfur content lower than 0.1 % by weight. The invention is directed to the curable silicone  
elastomer composition thus obtained.

WO 2005/075551 A1